


**TRANSMITTAL  
FORM**

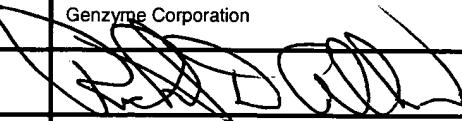
(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	41	Attorney Docket Number	103.1D1C4
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**ENCLOSURES (check all that apply)**

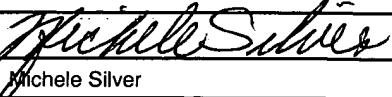
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Statement under 37 CFR 3.73(b) and supplemental sheet
<b>Remarks</b>		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

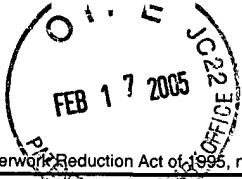
Firm	Genzyme Corporation		
Signature			
Printed Name	Richard D. Allison		
Date	February 15, 2005	Reg. No.	31,584

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature	
Typed or printed name	Michele Silver
Date	February 15, 2005

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**REVOCATION OF POWER OF  
ATTORNEY WITH  
NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE  
ADDRESS**

Application Number	10/766,638
Filing Date	January 28, 2004
First Named Inventor	Holmes-Farley et al.
Art Unit	1615
Examiner Name	James M. Spear
Attorney Docket Number	103.1D1C4

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

 A Power of Attorney is submitted herewith.**OR** I hereby appoint the practitioners at Customer Number : 24536 Please change the correspondence address for the above-identified application to: The address associated with  
Customer Number:24536**OR**

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector Legal Department				
City	Framingham	State	MA	ZIP	01701
Country	US				
Telephone	(617) 252-7500	Fax	(508) 872-5415		

I am the:

 Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Signature			
Name	Richard D. Allison, Managing IP Counsel with Attached Signature Authority		
Date	February 15, 2005	Telephone	(508) 270-2583

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.  
Submit multiple forms if more than one signature is required, see below\*. \*Total of   forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

<b>Application Number</b>	10/766,638
<b>Filing Date</b>	January 28, 2004
<b>First Named Inventor</b>	Holmes-Farley et al.
<b>Title</b>	Phosphate-Binding Polymers, Etc.
<b>Art Unit</b>	1615
<b>Examiner Name</b>	James M. Spear
<b>Attorney Docket Number</b>	103.1D1C4

**I hereby revoke all previous powers of attorney given in the above-identified application.**

I hereby appoint:

Practitioners associated with the Customer Number:

24536

*OR*

Practitioner(s) named below:

Name	Registration Number
Richard D. Allison	31,584
Isabelle A.S. Blundell	43,321
Robert J. Cobert	36,108
Thomas J. DesRosier	30,168

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number

*OR*

The address associated with Customer Number:

24536

*OR*

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector Legal Department				
City	Framingham	State	MA	ZIP	01701
Country	US				
Telephone	(617) 252-7500	Fax	(508) 872-5415		

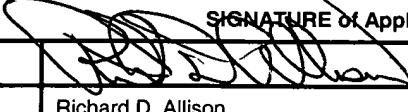
I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

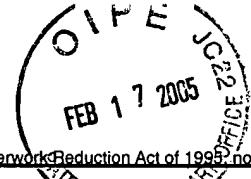
*Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)*

**SIGNATURE of Applicant or Assignee of Record**

Signature			Date	February 15, 2005				
Name	Richard D. Allison		Telephone	(508) 270-2583				
Title and Company	Managing Intellectual Property Counsel with Attached Signature Authority							
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.								
<input type="checkbox"/> *Total of _____ forms are submitted.								

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**POWER OF ATTORNEY**  
and  
**CORRESPONDENCE ADDRESS**  
**INDICATION FORM**

<b>Application Number</b>	10/766,638
<b>Filing Date</b>	January 28, 2004
<b>First Named Inventor</b>	Holmes-Farley et al.
<b>Title</b>	Phosphate-Binding Polymers, Etc.
<b>Art Unit</b>	1615
<b>Examiner Name</b>	James M. Spear
<b>Attorney Docket Number</b>	103.1D1C4

**I hereby revoke all previous powers of attorney given in the above-identified application.**

I hereby appoint:

Practitioners associated with the Customer Number:

*OR*

Practitioner(s) named below:

Name	Registration Number
Deborah A. Dugan	37,315
Jennifer L. Dupre	41,722
Madge R. Kanter	35,211
Elizabeth Lassen	31,845

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number

*OR*

The address associated with Customer Number:

24536

*OR*

Firm or Individual Name

Genzyme Corporation

Address  
15 Pleasant Street Connector  
Legal Department

City  
Framingham

State

MA

ZIP

01701

Country  
US

Telephone  
(617) 252-7500

Fax

(508) 872-5415

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

*Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)*

**SIGNATURE of Applicant or Assignee of Record**

Signature

Date

February 15, 2005

Name

Richard D. Allison

Telephone

(508) 270-2583

Title and Company

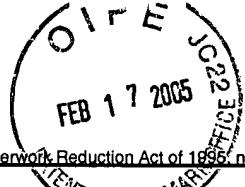
Managing Intellectual Property Counsel with Attached Signature Authority

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of forms are submitted.

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

<b>Application Number</b>	10/766,638
<b>Filing Date</b>	January 28, 2004
<b>First Named Inventor</b>	Holmes-Farley et al.
<b>Title</b>	Phosphate-Binding Polymers, Etc.
<b>Art Unit</b>	1615
<b>Examiner Name</b>	James M. Spear
<b>Attorney Docket Number</b>	103.1D1C4

**I hereby revoke all previous powers of attorney given in the above-identified application.**

**I hereby appoint:**

Practitioners associated with the Customer Number:

24536

**OR**

Practitioner(s) named below:

Name	Registration Number
Bart G. Newland	31,282
Jennifer D. Tousignant	54,498
Y. Philip Zhang	44,372

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number

**OR**

The address associated with Customer Number:

24536

**OR**

Firm or Individual Name

Genzyme Corporation

Address

15 Pleasant Street Connector

Legal Department

City

Framingham

State

MA

ZIP

01701

Country

US

Telephone

(617) 252-7500

Fax

(508) 872-5415

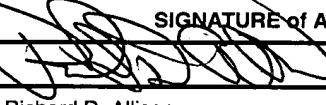
I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

*Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)*

**SIGNATURE of Applicant or Assignee of Record**

Signature  Date February 15, 2005

Name Richard D. Allison Telephone (508) 270-2583

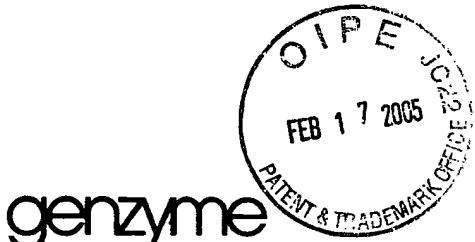
Title and Company Managing Intellectual Property Counsel with Attached Signature Authority

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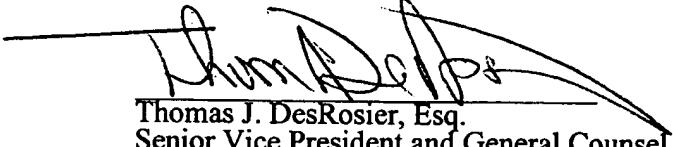


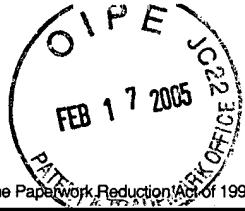
**Genzyme Corporation**  
500 Kendall Street  
Cambridge, MA 02142  
Tel.: (617) 252-7500  
Fax: (617) 252-7553

### **SIGNATURE AUTHORITY**

I, Thomas J. DesRosier, Senior Vice President and General Counsel of Genzyme Corporation hereby appoint Madge R. Kanter, Richard D. Allison, Elizabeth Lassen and Bart G. Newland, all Managing Intellectual Property Counsel of Genzyme Corporation, with full power and authority to transact any and all business before the United States Patent and Trademark Office, and any foreign counterpart patent office, with the powers of a Corporate Officer of Genzyme Corporation.

Date: December 2, 2003

  
Thomas J. DesRosier, Esq.  
Senior Vice President and General Counsel  
GENZYME CORPORATION

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Stephen Randall Holmes-Farley et al.Application No./Patent No.: 10/766,638Filed/Issue Date: January 28, 2004Entitled: Phosphate-Binding Polymers for Oral AdministrationGenzyme Corporation, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is        %

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel       , Frame       , or for which a copy thereof is attached.

**OR**

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Stephen R. Holmes-Farley, Harry W. Mandeville, III, and George M. Whitesides  
To: Geltex, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 6711, Frame 0377, or for which a copy thereof is attached.

2. From: Stephen R. Holmes-Farley, Harry Mandeville, III, and George M. Whitesides  
To: Geltex, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 7140, Frame 0809, or for which a copy thereof is attached.

3. From: Stephen Randall Holmes-Farley, Harry W. Mandeville, III and George M. Whitesides To: Geltex Pharmaceuticals, Inc.

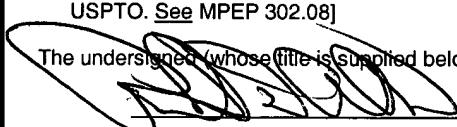
The document was recorded in the United States Patent and Trademark Office at Reel 7568, Frame 0232, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

**[NOTE:** A separate copy (i.e., a true copy of the original document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

  
Signature

February 15, 2005

Date

Richard D. Allison

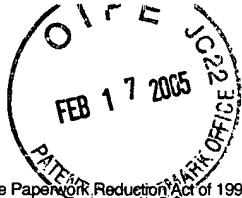
(508) 270-2583

Printed or Typed Name

Telephone Number

Richard D. Allison, Managing IPCounsel with AttachedSignature Authority

Title

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Stephen Randall Holmes-Farley et al.

Application No./Patent No.: 10/766,638 Filed/Issue Date: January 28, 2004

Entitled: Phosphate-Binding Polymers for Oral Administration

Genzyme Corporation, a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is \_\_\_\_ %

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached.

**OR**

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Geltex Pharmaceuticals, Inc. To: Genzyme CorporationThe document was recorded in the United States Patent and Trademark Office at Reel 014022, Frame 0197, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

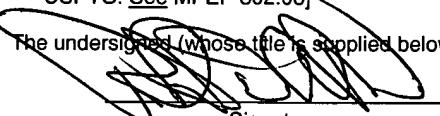
3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

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The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

  
Signature

Richard D. Allison

Printed or Typed Name

Richard D. Allison, Managing IP  
Counsel with Attached  
Signature Authority

Title

February 15, 2005

Date

(508) 270-2583

Telephone Number

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**SUPPLEMENTAL SHEET**

DATE: 11/02/93  
TO:



N04B

05329/00500  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

PAUL T. CLARK, ESQ.  
FISH & RICHARDSON  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804

NO4B 03/03/00

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR: HOLMES-FARLEY, STEPHEN R. DOC DATE: 09/10/93

ASSIGNOR: MANDEVILLE, W. HARRY, III DOC DATE: 09/10/93

ASSIGNOR: WHITESIDES, GEORGE M. DOC DATE: 09/21/93

RECORDATION DATE: 10/04/93 NUMBER OF PAGES 003 REEL/FRAME 6711/0377

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
GELTEX, INC.  
128 SPRING STREET  
LEXINGTON, MASSACHUSETTS 02173

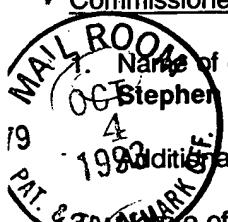
SERIAL NUMBER 8-105591 FILING DATE 08/11/93  
PATENT NUMBER ISSUE DATE 00/00/00

EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

* No Docketing Required *	
Reviewed By Practice Systems	
Initials:	<i>mc</i>
Reviewed By Billing Secretary	
Initials:	<i>mc</i>

CORDATION FORM COVER SHEET  
PATENTS ONLY40-581  
①

Commissioner of Patents and Trademarks: Please record the attached original document.



1. Name of conveying party(ies):  Stephen R. Holmes-Farley

19 4 1993  
PAT. & TRADEMARK  
1. Additional name(s) attached?  Yes  No

2. Name and address of receiving party(ies):  
Geltex, Inc.  
128 Spring Street  
Lexington, MA 02173

Additional names/addresses attached?  Yes  No

3. Nature of conveyance:

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other:

Execution Date: September 10, 1993

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):

08/105,591 filed 8/11/93

B. Patent No.(s):

Additional numbers attached?  Yes  No

5. Name/address of party to whom correspondence concerning document should be mailed:

Paul T. Clark, Esq.  
Fish & Richardson  
225 Franklin Street  
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40

Enclosed

Authorized to charge deposit account

8. Deposit account number: 06-1050

If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

Dorothy P. Whelan, Reg. No. 33,814

Name of Person Signing

Signature

9/28/93  
Date

Total number of pages including cover sheet, attachments, and document: 3

050 MS 10/14/93 08105591

1 581 40004  
9/28/93

Date of Deposit 1 581 40004  
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Judith A. Rule  
Judith A. Rule

91709399

REEL 6711 FRAME 371

## ASSIGNMENT

For valuable consideration, we, Stephen Randall Holmes-Farley of Arlington, Massachusetts; W. Harry Mandeville, III, of Lynnfield, Massachusetts; and George McClelland Whitesides of Newton, Massachusetts hereby assign to Geltex, Inc., a Delaware corporation having a place of business at Lexington, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent No. 08/105,591 filed August 11, 1993, entitled PHOSPHATE-BINDING POLYMERS FOR ORAL ADMINISTRATION this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Waltham, MASS.,

this 10<sup>th</sup> day of September, 1993

Stephen Randall Holmes-Farley

L.S.

STEPHEN RANDALL HOLMES-FARLEY

STATE OF Massachusetts :

:ss.

COUNTY OF Middlesex :

Before me this 10<sup>th</sup> day of September, 1993 personally appeared Stephen  
Randal Holmes-Farley known to me to be the person whose name is subscribed to the foregoing  
Assignment and acknowledged that he executed the same as his free act and deed for the purposes  
therein contained.

Doreen M Bjorkman  
Notary Public

My Commission Expires:

[Notary's Seal Here]

DOREEN M. BJORKMAN  
NOTARY PUBLIC  
My commission exp Sept 30, 1999

REF 6711 FRAME 378

IN WITNESS WHEREOF, I here set my hand and seal at WALT, 1, MA,  
this 10 day of SEPT, 1993

W. Harry Mandeville III  
W. HARRY MANDEVILLE, III

L.S.

STATE OF MASSACHUSETTS :  
:SS.

COUNTY OF MIDDLESEX :

Before me this 10<sup>th</sup> day of September, 1993 personally appeared W. Harry Mandeville known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M Bjorkman  
Notary Public

My Commission Expires:

[Notary's Seal Here]

DOREEN M. BJORKMAN  
NOTARY PUBLIC  
My commission exp Sept 30 1999

REEL 6711 FRAME 379

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge MA,  
this 21 day of Sept, 1993

George McClelland Whitesides  
GEORGE McCLELLAND WHITESIDES

L.S.

STATE OF Massachusetts :  
:SS.

COUNTY OF Middlesex :

Before me this 21<sup>st</sup> day of Sept, 1993, personally appeared George M. McClelland Whitesides known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

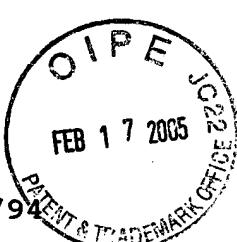
Susan A. Rothman  
Notary Public

My Commission Expires: 2-27-98

[Notary's Seal Here]

OCT -4 93

SEARCHED  
INDEXED  
PATENT AND TRADEMARK  
OFFICE



75329/009001  
94-0034

DATE: 10/20/94  
TO:

N05B

DOROTHY P. WHELAN  
FISH & RICHARDSON  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804

NOV 14 1994

FISH & RICHARDSON  
BOSTON, MA

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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ASSIGNOR: HOLMES-FARLEY, STEPHEN R. DOC DATE: 06/09/94

ASSIGNOR: MANDEVILLE, HARRY, III DOC DATE: 06/09/94

ASSIGNOR: WHITESIDES, GEORGE M. DOC DATE: 08/05/94

RECORDATION DATE: 08/30/94 NUMBER OF PAGES 003 REEL/FRAME 7140/0809

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
GELTEX INC.  
303 BEAR HILL ROAD  
WALTHAM, MA 02154

SERIAL NUMBER 8-238458 FILING DATE 05/05/94  
PATENT NUMBER ISSUE DATE 00/00/00

*Andrea L. Page*  
EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

* No Docketing Required *	
Reviewed By Practice Systems	
Initials:	<i>MLB</i>
Reviewed By Billing Secretary	
Initials:	

IN WITNESS WHEREOF, I here. set my hand and seal at Wal. 2m, MA,  
this 9 day of June, 1994

W. Harry Mandeville, III  
First Middle Initial Last  
W. Harry Mandeville, III

L.S.

STATE OF MASSACHUSETTS :  
:SS.

COUNTY OF MIDDLESEX :

Before me this 9 day of June, 1994, personally appeared W. Harry Mandeville, III known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M. Bjorkman  
Notary Public

My Commission Expires: DOREEN M. BJORKMAN  
[Notary's Seal Here] NOTARY PUBLIC  
My commission exp. Sept. 30. 1999

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge, Ma,  
this 5 day of August, 1994

George Whitesides  
First Middle Initial Last  
George McClelland Whitesides

L.S.

STATE OF Massachusetts :  
:SS.  
COUNTY OF Middlesex :

Before me this 5 day of August, 1994, personally appeared George Whitesides known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

George Whitesides  
Notary Public

[Notary's Seal Here]

My Commission Expires:

Notary Commission Expires May 11, 2001

RECORDED  
PATENT AND TRADEMARK  
OFFICE

AUG 30 1994

REEL 7140 FRAME 811

## ASSIGNMENT

For valuable consideration, we, Stephen Randall Holmes-Farley, of Arlington, MA; W. Harry Mandeville, III of Lynnfield, MA; George McClelland Whitesides of Newton, MA; hereby assign to Geltex Inc., a Massachusetts corporation having a place of business at 128 Spring Street, Lexington, MA 02173, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled **PHOSPHATE-BINDING POLYMERS FOR ORAL ADMINISTRATION**

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Waltham, MA,  
this 9<sup>th</sup> day of July, 1994.

First      Middle Initial      Last  
Stephen      Randall      Holmes-Farley

15

STATE OF MASSACHUSETTS.

ISS.

COUNTY OF MIDDLESEX

Before me this 9th day of June, 1994, personally appeared Stephen R Holmes - Farley known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M. Goyema  
Notary Public

## My Commission Expires:

DORFFEN M. BJORKMAN

**NOTARY PUBLIC**

My commission exp Sept 30, 1999

[Notary's Seal Here]

REEL 7140 FRAME 810

CORDATION FORM COVER SHEET  
PATENTS ONLY

Commissioner of Patents and Trademarks: Please record the attached original document.

① Name of conveying party(ies):  
Stephen R. Holmes-Farley,  
Harry Mandeville, III  
George M. Whitesides

Additional name(s) attached? 

② Name and address of receiving party(ies):  
Geltex Inc.  
303 Bear Hill Road  
Waltham, MA 02154

Additional names/addresses attached?  Yes  No

③ Nature of conveyance: 19

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other:

Execution Date: 6/9/94

④ Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):

08/238,458

B. Patent No.(s):

Additional numbers attached?  Yes  No

⑤ Name/address of party to whom correspondence concerning document should be mailed:

Dorothy P. Whelan  
Fish & Richardson  
225 Franklin Street  
Boston, MA 02110-2804

⑥ Total number of applications/patents involved: 1

⑦ Total fee (37 CFR 3.41): \$40

- Enclosed
- Authorized to charge deposit account

8. Deposit account number: 06-1050

If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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⑨ Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

Dorothy P. Whelan

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 3

100 FS 09/06/94 08238458

1 581 40.00 CK

193700642

Date of Deposit

I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Judith A. Puleo  
Judith A. Puleo

REEL 140 FRAME 809



UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DECEMBER 09, 1995

PTAS

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.  
ATTN: DAVID E. BROOK, ESQ.  
TWO MILITIA DRIVE  
LEXINGTON, MA 02173



\*100046762A\*

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RECORDATION DATE: 07/31/1995

REEL/FRAME: 7568/0232  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HOLMES-FARLEY, STEPHEN RANDALL

DOC DATE: 07/13/1995

ASSIGNOR:

MANDEVILLE, W. HARRY, III

DOC DATE: 07/13/1995

ASSIGNOR:

WHITESIDES, GEORGE M.

DOC DATE: 07/14/1995

ASSIGNEE:

GELTEX PHARMACEUTICALS, INC.  
303 BEAR HILL ROAD  
WALTHAM, MASSACHUSETTS 02154

SERIAL NUMBER: 08471747

FILING DATE: 06/06/1995

PATENT NUMBER:

ISSUE DATE:

SEDLEY PYNE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

To the Honorable Commission

08-21-1995



ER S. ET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

GTX94-01A7

58 44

the attached original documents or copy thereof.

1. Name of conveying party(ies):

Stephen Randall Holmes-Farley  
W. Harry Mandeville, III  
George M. Whitesides

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment  
 Security Agreement  
 Other \_\_\_\_\_

Merger  
 Change of Name

Execution Date: 1&2 7/13/95; 3-7/14/95

2. Name and address of receiving party(ies)

Name: GelTex Pharmaceuticals, Inc.

Internal Address: \_\_\_\_\_

Street Address: 303 Bear Hill Road

City: Waltham State: MA ZIP: 02154

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

08/471,747

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David E. Brook, Esq.

Internal Address: Hamilton, Brook,

Smith & Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington State: MA ZIP: 02173

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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080 TL 08/14/95 08471747

1 581 40.00 CK

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Carolyn S. Elmore

Name of Person Signing

Signature

7/27/95

Date

Total number of pages including cover sheet, attachments, and document: 4

Joint

ASSIGNMENT

WHEREAS, we, Stephen Randall Holmes-Farley, W. Harry Mandeville, III and George M. Whitesides have invented a certain improvement in **PHOSPHATE-BINDING POLYMERS FOR ORAL ADMINISTRATION** described in an application for Letters Patent of the United States, Serial No. 08/471,747, filed June 6, 1995.

WHEREAS, GelTex Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 303 Bear Hill Road, Waltham, Massachusetts 02154, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of the said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution

of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor Stephen Randall Holmes-Farley Date 7/13/95  
Stephen Randall Holmes-Farley

Address 20 Norfolk Road,  
Arlington, Massachusetts 02174

Witness Amy Wilson Date 7/13/95  
Address 1617 Mass Ave #3  
Cambridge MA 02138

Witness Sue B. Date 7/13/95  
Address 25 Allen Street  
Arlington, MA 02174

Inventor W. Harry Mandeville, III Date 7/13/95  
W. Harry Mandeville, III  
Address 7 Pillings Pond Road  
Lynnfield, Massachusetts 01940

Witness Amy Wilson Date 7/13/95  
Address 1617 Mass Ave #3  
Cambridge, MA 02138

Witness Sue B. Date 7/13/95  
Address 25 Allen Street  
Arlington, MA 02174

Inventor George M. Whitesides Date 7/14/95

Address 124 Grasmere Street  
Newton, Massachusetts 02158

Witness Amy Wilson Date 7/14/95

Address 1617 MASS AVE #3  
Cambridge MA 02138

Witness Sue M Date 7/14/95

Address 25 Allen Street, Arlington MA 02174



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE



OCTOBER 06, 2003

PTAS

Chief Financial Officer and Chief Administrative Officer  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)

HAMILTON BROOK SMITH, ET AL.  
ALICE O. CARROLL, ESQ.  
530 VIRGINIA ROAD  
P.O. BOX 9133  
CONCORD, MA 01742-9133



\*102442187A\*

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RECORDATION DATE: 05/05/2003

REEL/FRAME: 014022/0197

NUMBER OF PAGES: 11

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GELTEX PHARMACEUTICALS, INC.

DOC DATE: 03/27/2003

ASSIGNEE:

GENZYME CORPORATION  
ONE KENDALL SQUARE  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09655998  
PATENT NUMBER: 6605270

FILING DATE: 09/06/2000  
ISSUE DATE: 08/12/2003

SERIAL NUMBER: 09708828  
PATENT NUMBER:

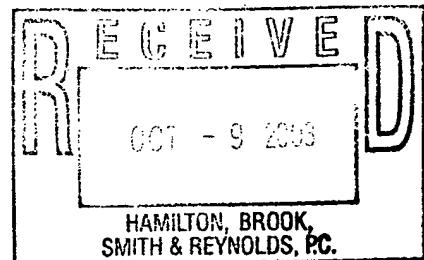
FILING DATE: 11/08/2000  
ISSUE DATE:

SERIAL NUMBER: 10322904  
PATENT NUMBER:

FILING DATE: 12/17/2002  
ISSUE DATE:

SERIAL NUMBER: 10264350  
PATENT NUMBER:

FILING DATE: 10/03/2002  
ISSUE DATE:



SERIAL NUMBER: 10081022  
PATENT NUMBER: 6593366

FILING DATE: 02/21/2002  
ISSUE DATE: 07/15/2003

SERIAL NUMBER: 09721310  
PATENT NUMBER:

FILING DATE: 11/22/2000  
ISSUE DATE:

SERIAL NUMBER: 09721291  
PATENT NUMBER:

FILING DATE: 11/22/2000  
ISSUE DATE:

SERIAL NUMBER: 10307151  
PATENT NUMBER:

FILING DATE: 11/27/2002  
ISSUE DATE:

SERIAL NUMBER: 09714327  
PATENT NUMBER: 6572850

FILING DATE: 11/16/2000  
ISSUE DATE: 06/03/2003

SERIAL NUMBER: 09714541  
PATENT NUMBER: 6558657

FILING DATE: 11/16/2000  
ISSUE DATE: 05/06/2003

SERIAL NUMBER: 09891720  
PATENT NUMBER: 6566407

FILING DATE: 06/26/2001  
ISSUE DATE: 05/20/2003

SERIAL NUMBER: 10324623  
PATENT NUMBER:

FILING DATE: 12/19/2002  
ISSUE DATE:

SERIAL NUMBER: 09286341  
PATENT NUMBER: 6610283

FILING DATE: 04/05/1999  
ISSUE DATE: 08/26/2003

SERIAL NUMBER: 08964498  
PATENT NUMBER:

FILING DATE: 11/05/1997  
ISSUE DATE:

SERIAL NUMBER: 10158207  
PATENT NUMBER:

FILING DATE: 05/29/2002  
ISSUE DATE:

SERIAL NUMBER: 10025184  
PATENT NUMBER:

FILING DATE: 12/19/2001  
ISSUE DATE:

SERIAL NUMBER: 10125702  
PATENT NUMBER:

FILING DATE: 04/17/2002  
ISSUE DATE:

SERIAL NUMBER: 10295019  
PATENT NUMBER:

FILING DATE: 11/14/2002  
ISSUE DATE:

SERIAL NUMBER: 09847053  
PATENT NUMBER:

FILING DATE: 05/01/2001  
ISSUE DATE:

SERIAL NUMBER: 10051766  
PATENT NUMBER:

FILING DATE: 01/17/2002  
ISSUE DATE:

SERIAL NUMBER: 10051765  
PATENT NUMBER:

FILING DATE: 01/17/2002  
ISSUE DATE:

SERIAL NUMBER: 09691429  
PATENT NUMBER:

FILING DATE: 10/18/2000  
ISSUE DATE:

SERIAL NUMBER: 09875275	FILING DATE: 06/06/2001
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10187316	FILING DATE: 06/27/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10327627	FILING DATE: 12/20/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 09877723	FILING DATE: 06/08/2001
PATENT NUMBER: 6565895	ISSUE DATE: 05/20/2003
SERIAL NUMBER: 09610246	FILING DATE: 07/06/2000
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10125684	FILING DATE: 04/17/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10125793	FILING DATE: 04/17/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10187397	FILING DATE: 06/27/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10125701	FILING DATE: 04/17/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10125685	FILING DATE: 04/17/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10187315	FILING DATE: 06/27/2002
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10374014	FILING DATE: 02/25/2003
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 10359458	FILING DATE: 02/05/2003
PATENT NUMBER:	ISSUE DATE:
SERIAL NUMBER: 08065546	FILING DATE: 05/20/1993
PATENT NUMBER: 5487888	ISSUE DATE: 01/30/1996
SERIAL NUMBER: 08567933	FILING DATE: 12/06/1995
PATENT NUMBER: 5702696	ISSUE DATE: 12/30/1997
SERIAL NUMBER: 08258477	FILING DATE: 06/10/1994
PATENT NUMBER: 5624963	ISSUE DATE: 04/29/1997
SERIAL NUMBER: 08482969	FILING DATE: 06/07/1995
PATENT NUMBER: 5703188	ISSUE DATE: 12/30/1997
SERIAL NUMBER: 08959471	FILING DATE: 10/28/1997
PATENT NUMBER: 5840766	ISSUE DATE: 11/24/1998

SERIAL NUMBER: 09191868  
PATENT NUMBER: 6060517

FILING DATE: 11/12/1998  
ISSUE DATE: 05/09/2000

SERIAL NUMBER: 08238458  
PATENT NUMBER: 5496545

FILING DATE: 05/05/1994  
ISSUE DATE: 03/05/1996

SERIAL NUMBER: 08471747  
PATENT NUMBER: 5667775

FILING DATE: 06/06/1995  
ISSUE DATE: 09/16/1997

SERIAL NUMBER: 08929784  
PATENT NUMBER: 6083495

FILING DATE: 09/15/1997  
ISSUE DATE: 07/04/2000

SERIAL NUMBER: 09542329  
PATENT NUMBER: 6509013

FILING DATE: 04/04/2000  
ISSUE DATE: 01/21/2003

SERIAL NUMBER: 08460980  
PATENT NUMBER: 5679717

FILING DATE: 06/05/1995  
ISSUE DATE: 10/21/1997

SERIAL NUMBER: 09288357  
PATENT NUMBER: 5981693

FILING DATE: 04/08/1999  
ISSUE DATE: 11/09/1999

SERIAL NUMBER: 09129286  
PATENT NUMBER: 5917007

FILING DATE: 08/05/1998  
ISSUE DATE: 06/29/1999

SERIAL NUMBER: 09388876  
PATENT NUMBER: 6066678

FILING DATE: 09/02/1999  
ISSUE DATE: 05/23/2000

SERIAL NUMBER: 08461298  
PATENT NUMBER: 5693675

FILING DATE: 06/05/1995  
ISSUE DATE: 12/02/1997

SERIAL NUMBER: 09532984  
PATENT NUMBER: 6225355

FILING DATE: 03/22/2000  
ISSUE DATE: 05/01/2001

SERIAL NUMBER: 09803647  
PATENT NUMBER: 6433026

FILING DATE: 03/09/2001  
ISSUE DATE: 08/13/2002

SERIAL NUMBER: 08471769  
PATENT NUMBER: 5607669

FILING DATE: 06/06/1995  
ISSUE DATE: 03/04/1997

SERIAL NUMBER: 08779779  
PATENT NUMBER: 5919832

FILING DATE: 01/07/1997  
ISSUE DATE: 07/06/1999

SERIAL NUMBER: 08469659  
PATENT NUMBER: 5618530

FILING DATE: 06/06/1995  
ISSUE DATE: 04/08/1997

SERIAL NUMBER: 08659264  
PATENT NUMBER: 5900475

FILING DATE: 06/06/1996  
ISSUE DATE: 05/04/1999

SERIAL NUMBER: 09185157  
PATENT NUMBER: 5969090

FILING DATE: 11/03/1998  
ISSUE DATE: 10/19/1999

SERIAL NUMBER: 08670764  
PATENT NUMBER: 6034129

FILING DATE: 06/24/1996  
ISSUE DATE: 03/07/2000

SERIAL NUMBER: 09493639	FILING DATE: 01/28/2000
PATENT NUMBER: 6395777	ISSUE DATE: 05/28/2002
SERIAL NUMBER: 08826197	FILING DATE: 03/27/1997
PATENT NUMBER: 5925379	ISSUE DATE: 07/20/1999
SERIAL NUMBER: 08999351	FILING DATE: 12/29/1997
PATENT NUMBER: 6129910	ISSUE DATE: 10/10/2000
SERIAL NUMBER: 09166453	FILING DATE: 10/05/1998
PATENT NUMBER: 6264937	ISSUE DATE: 07/24/2001
SERIAL NUMBER: 09353329	FILING DATE: 07/14/1999
PATENT NUMBER: 6299868	ISSUE DATE: 10/09/2001
SERIAL NUMBER: 09166510	FILING DATE: 10/05/1998
PATENT NUMBER: 6267952	ISSUE DATE: 07/31/2001
SERIAL NUMBER: 09226585	FILING DATE: 01/06/1999
PATENT NUMBER: 6352692	ISSUE DATE: 03/05/2002
SERIAL NUMBER: 08999029	FILING DATE: 12/29/1997
PATENT NUMBER: 5929184	ISSUE DATE: 07/27/1999
SERIAL NUMBER: 08964956	FILING DATE: 11/05/1997
PATENT NUMBER: 5985938	ISSUE DATE: 11/16/1999
SERIAL NUMBER: 09359226	FILING DATE: 07/22/1999
PATENT NUMBER: 6177478	ISSUE DATE: 01/23/2001
SERIAL NUMBER: 09668874	FILING DATE: 09/25/2000
PATENT NUMBER: 6281252	ISSUE DATE: 08/28/2001
SERIAL NUMBER: 08934495	FILING DATE: 09/19/1997
PATENT NUMBER: 6007803	ISSUE DATE: 12/28/1999
SERIAL NUMBER: 09597343	FILING DATE: 06/19/2000
PATENT NUMBER: 6290947	ISSUE DATE: 09/18/2001
SERIAL NUMBER: 08777408	FILING DATE: 12/30/1996
PATENT NUMBER: 6203785	ISSUE DATE: 03/20/2001
SERIAL NUMBER: 09568825	FILING DATE: 05/11/2000
PATENT NUMBER: 6482402	ISSUE DATE: 11/19/2002
SERIAL NUMBER: 09298350	FILING DATE: 04/23/1999
PATENT NUMBER: 6190649	ISSUE DATE: 02/20/2001
SERIAL NUMBER: 09203319	FILING DATE: 12/01/1998
PATENT NUMBER: 6271264	ISSUE DATE: 08/07/2001
SERIAL NUMBER: 08979096	FILING DATE: 11/26/1997
PATENT NUMBER: 6423754	ISSUE DATE: 07/23/2002

SERIAL NUMBER: 08964536  
PATENT NUMBER: 6083497

FILING DATE: 11/05/1997  
ISSUE DATE: 07/04/2000

SERIAL NUMBER: 09311402  
PATENT NUMBER: 6264938

FILING DATE: 05/13/1999  
ISSUE DATE: 07/24/2001

SERIAL NUMBER: 09311103  
PATENT NUMBER: 6365186

FILING DATE: 05/13/1999  
ISSUE DATE: 04/02/2002

SERIAL NUMBER: 09521975  
PATENT NUMBER: 6248318

FILING DATE: 03/09/2000  
ISSUE DATE: 06/19/2001

SERIAL NUMBER: 09165386  
PATENT NUMBER: 6294163

FILING DATE: 10/02/1998  
ISSUE DATE: 09/25/2001

SERIAL NUMBER: 09541268  
PATENT NUMBER: 6270755

FILING DATE: 04/03/2000  
ISSUE DATE: 08/07/2001

SERIAL NUMBER: 09569276  
PATENT NUMBER: 6290946

FILING DATE: 05/11/2000  
ISSUE DATE: 09/18/2001

SERIAL NUMBER: 09878843  
PATENT NUMBER: 6419914

FILING DATE: 06/11/2001  
ISSUE DATE: 07/16/2002

SERIAL NUMBER: 09713784  
PATENT NUMBER: 6517825

FILING DATE: 11/15/2000  
ISSUE DATE: 02/11/2003

SERIAL NUMBER: 09723596  
PATENT NUMBER: 6517826

FILING DATE: 11/28/2000  
ISSUE DATE: 02/11/2003

SERIAL NUMBER: 09901206  
PATENT NUMBER: 6517827

FILING DATE: 07/09/2001  
ISSUE DATE: 02/11/2003

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## RECORDATION

5-5-03

## PATENT

## OFFICE OF PUBLIC

To the Commissioner, United States Patent and Trademark

2003 MAY -5 AM 8:

## 1. Name of conveying party(ies)

GelTex Pharmaceuticals, Inc.  
153 Second Avenue  
Waltham, Massachusetts 02451

## FINANCE SECTION

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

Execution Date: March 27, 2003

102442187

Documents or copy thereof.

## 532. Name and address of receiving party(ies)

Name: Genzyme Corporation

Internal Address: \_\_\_\_\_

Street Address: One Kendall Square

City: Cambridge State: MA ZIP: 02139

Additional name(s) & address(es) attached?  Yes  No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

See Schedule B

## B. Patent No.(s)

See Schedule A

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Alice O. Carroll, Esq.

Internal Address: \_\_\_\_\_

Hamilton, Brook, Smith &amp; Reynolds, P.C.

Street Address: 530 Virginia Road, P.O. Box 9133

City: Concord State: MA ZIP: 01742-9133

## 6. Total number of applications and patents involved: [90]

## 7. Total Fee (37 C.F.R. 3.41)..... \$ 3,600.00

 Enclosed Authorized to charge any deficiencies or credit any overpayment to deposit account Authorized to be charged to deposit account

## 8. Deposit account number:

08-0380

(Attach duplicate copy of this page if paying by deposit account)

## DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Alice O. Carroll

Name of Person Signing



April 14, 2003

Date

Total number of pages including cover sheet, attachments, and document:

[ 11 ]

**U.S. PATENTS**  
Schedule A

<i>Application Number</i>	<i>Patent Number</i>	<i>Application Date</i>	<i>Issue Date</i>	<i>Docket Number and Client Reference No.</i>
08/065,546	5,487,888	20MY1993	30JA1996	1932.1002-000 05329/003001
08/567,933	5,702,696	06DE1995	30DE1997	1932.1002-004 1011 US
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09/388,876	6,066,678	02SE1999	23MY2000	1932.1005-035 1041D1C3 US
08/461,298	5,693,675	05JE1995	02DE1997	1932.1005-036 1043 US
09/532,984	6,225,355	22MR2000	01MY2001	1932.1005-037 1041D1C4 US

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08/471,769	5,607,669	06JE1995	04MR1997	1932.1007-001 1061 US
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08/934,495	6,007,803	19SE1997	28DE1999	1932.1037-000 1360 US
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09/203,319	6,271,264	01DE1998	07AU2001	1932.1051-000 1520
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09/901,206	6,517,827	09JL2001	11FE2003	1932.1102-012 2031C2 US

U.S. PATENT APPLICATIONS  
Schedule B

<i>Application Number</i>	<i>Filing Date</i>	<i>Attorney Docket Number</i>	<i>Client Reference Number</i>
09/655,998	06SE2000	1932.1002-007	1011D1C2 US
09/708,828	08NO2000	1932.1003-020	1023D1C3 US
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10/359,458	05FE2003	1932.1031-023	

Examiner

FEDERAL IDENTIFICATION  
NO.06-1047163  
Fee: \$250.00

**The Commonwealth of Massachusetts**

William Francis Galvin  
Secretary of the Commonwealth  
One Ashburton Place, Boston, Massachusetts 02108-1512

081

**ARTICLES OF MERGER OF PARENT AND SUBSIDIARY CORPORATIONS**  
(General Laws, Chapter 156B, Section 82)

We, Michael S. Wyzga, <sup>Sr.</sup> President / \*Vice President,

and Peter Wirth, \*Clerk ~~XXXXXXXXXX~~

of Genzyme Corporation,  
(Exact name of corporation)

organized under the laws of Massachusetts and herein called the parent corporation,  
certify as follows:

1. That the subsidiary corporation(s) to be merged into the parent corporation is/are:

NAME	STATE OF ORGANIZATION	DATE OF ORGANIZATION
GelTex Pharmaceuticals, Inc.	MA	September 11, 2000

(720) 720-6933

2. The parent corporation, at the date of the vote, owned not less than ninety percent (90%) of the outstanding shares of each class of stock of the subsidiary corporation or corporations with which it has voted to merge.

Item 3 below may be deleted if all the corporations are organized under the laws of Massachusetts and if General Laws, Chapter 156B is applicable to them.

3. ~~THE PARENT CORPORATION HAS BEEN ORGANIZED UNDER THE LAWS OF MASSACHUSETTS AND HAS BEEN AUTHORIZED TO DO BUSINESS IN MASSACHUSETTS. THE PARENT CORPORATION HAS BEEN AUTHORIZED TO DO BUSINESS IN MASSACHUSETTS. THE PARENT CORPORATION HAS BEEN AUTHORIZED TO DO BUSINESS IN MASSACHUSETTS.~~

\*Delete the inapplicable words. In case the parent corporation is organized under the laws of a state other than Massachusetts, these articles are to be signed by officers having corresponding powers and duties.

4. That at a meeting of the directors of the parent corporation, the following vote, pursuant to General Laws, Chapter 156B, Section 82, Subsection (a) was duly adopted:

Approval of the Merger of GelTex Pharmaceuticals, Inc.

VOTED: That the Company is hereby authorized to merge GelTex Pharmaceuticals, Inc., a Massachusetts corporation, into the Company with the Company being the surviving entity.

VOTED: That the merger is approved and declared to be advisable and in the best interests of the Company.

VOTED: That upon adoption of this vote, the Company be, and hereby is, authorized to consummate the transaction and the President of the Company be, and hereby is, authorized and directed to execute and deliver any and all documents necessary to effect the merger on behalf of the Company.

VOTED: That the merger shall be effective on the date that Articles of Merger are filed with the Secretary of the Commonwealth of Massachusetts, provided that the President is authorized to specify a different effective date in the Articles of Merger which is not more than thirty (30) days after the Articles of Merger are filed.

General Authorization Vote

VOTED: That the proper officers of the Company are hereby authorized to execute and deliver such documents and take such other actions as they or any of them deem necessary or advisable to implement the transactions contemplated by the foregoing votes.

5. The effective date of the merger shall be the date approved and filed by the Secretary of the Commonwealth. If a *later* effective date is desired, specify such date, which shall not be more than *thirty days* after the date of filing:

April 1, 2003

Section 6 below may be deleted if the parent corporation is organized under the laws of Massachusetts.

SIGNED UNDER THE PENALTIES OF PERJURY, this 27th day of March, 20 03,

Sr.  
President / Vice President.

• Clerk AUGUSTA 1844

*\*Delete the inapplicable words. In case the parent corporation is organized under the laws of a state other than Massachusetts, these articles are to be signed by officers having corresponding powers and duties.*

05/01/0888

THE COMMONWEALTH OF MASSACHUSETTS

**ARTICLES OF MERGER OF PARENT AND SUBSIDIARY CORPORATIONS**  
**834156** (General Laws, Chapter 156B, Section 82)

03 APR .1 PM 3:38  
CORPORATION DIVISION

I hereby approve the within Articles of Merger of Parent and Subsidiary Corporations and, the filing fee in the amount of \$ 250, having been paid, said articles are deemed to have been filed with me this 1st day of April, 20 03.

*Effective date: 4/1/2003*

*William Francis Galvin*

**WILLIAM FRANCIS GALVIN**

*Secretary of the Commonwealth*

**TO BE FILLED IN BY CORPORATION**

**Contact information:**

Genzyme Corporation - Attention: Karen M. Heffernan

One Kendall Square, 1400 Bldg., Legal Department

Cambridge, MA 02139

Telephone: 617-591-5612

Email: karen.heffernan@genzyme.com

A copy this filing will be available on-line at [www.state.ma.us/sec/cor](http://www.state.ma.us/sec/cor) once the document is filed.